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### REMARKS

The Office Action of July 20, 2004 has been carefully considered. In response thereto, the claims have been amended as set forth above. Reconsideration and allowance in view of the foregoing amendments and the following remarks is respectfully requested.

The title and abstract have been amended as requested. Also, the claims have been amended to remove reference numbers.

Various ones of the claims were rejected for various informalities. These have been addressed by the present amendment.

Claims 1-7, 9-13 and 15 were rejected as being anticipated by Kranich. Claim 8 and 14 were rejected as being unpatentable over Kranich in view of Laurenti. Claim 4 and 13 have been cancelled. Claims 1, 3, and 10 have been amended to more clearly distinguish over the cited reference.

In particular, the claims have been amended to make clear that the execution units (at least some of the execution units) operate under both global and local control, global control being provided in the form of a single instruction fetch unit and an associated decode unit, for example. Such combined global and local control is illustrated in the embodiments of Figure 5 and Figure 9. The global control mechanism controls execution of a single process thread.

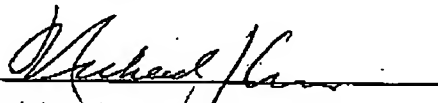
Kranich, on the other hand, relates to a symmetric multiprocessing system for parallel multithreaded execution, having two independent processing cores (14A, 14B), each having its own instruction fetch and decode units (note, for example, col. 12, lines 1-10). A thread is a single sequential flow of control within a program.

Multithreading is when multiple threads execute separate code instruction sequences within the same program. Interprocessor communication and synchronization logic is provided between the two processor cores, allowing one processor to "spawn" a processing thread to another processor and to obtain execution results from the processor upon completion. The claims as currently amended are not believed to described such a system.

Accordingly, the claims as amended are believed to patentably define over Kranich taken alone or in combination with Laurenti.

Withdrawal of the rejection and allowance of claims 1-3, 5-11 and 13-15 is respectfully requested.

Respectfully submitted,

  
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